

CLAIMS

What is claimed is:

- Sub 43*
1. A solid state multi-spectral light source comprising:
a plurality of light-emitting diodes, wherein at least two of the light-emitting diodes produce two different colors.
2. The light source according to claim 1, wherein the light-emitting diodes are arranged in groups, each group having at least two light-emitting diodes which produce the two different colors.
3. The light source according to claim 2, wherein the light-emitting diode groups each include three light-emitting diodes which produce three different colors.
4. The light source according to claim 2, wherein the light-emitting diode groups produce two different color light bars that scroll or flash through selective actuation of like colored light-emitting diodes in accordance with an image signal.
5. The light source according to claim 1, wherein the light-emitting diodes are defined on a wafer.

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6. The light source according to claim 1, wherein the light-emitting diodes are formed by a plurality of substrates disposed on a circuit board, each of the light-emitting diodes corresponding to one of the plurality of substrates.
7. A multi-spectral light source system comprising:
a light valve; and
a solid state multi-spectral light source that scrolls or flashes different colored light bars onto the light valve to produce a color image, the light source including a plurality of light-emitting diodes, wherein at least two of the light-emitting diodes produce two different colors.
8. The light source system according to claim 7, wherein the light-emitting diodes of the light source are arranged in groups, each group having at least two light-emitting diodes which produce the two different colors.
9. The light source system according to claim 8, wherein the light-emitting diode groups of the light source each include three light-emitting diodes which produce three different colors.
10. The light source system according to claim 8, wherein the light-emitting diode groups of the light source produce two different color light bars that scroll or flash through selective actuation of like colored light-emitting diodes in accordance with an image signal.

11. The light source system according to claim 7, wherein the light-emitting diodes of the light source are defined on a wafer.

12. The light source system according to claim 7, wherein the light-emitting diodes of the light source are defined by a plurality of substrates disposed on a circuit board, each of the light-emitting diodes corresponding to one of the plurality of substrates.

13. A method of producing multi-spectral light, the method comprising:
providing plurality of light-emitting diodes;
producing at least two different colors from at least two of the light-emitting diodes.

14. The method according to claim 13, wherein the providing step includes arranging the light-emitting diodes in groups each having at least two light-emitting diodes producing the two different colors.

15. The method according to claim 14, further comprising selectively actuating like colored light-emitting diodes in the groups in accordance with an image signal to produce two different color light bars that scroll or flash.